# FEDERAL COMMUNICATIONS COMMISSION
## 445 12th STREET SW
## WASHINGTON DC 20554


**MEDIA BUREAU**
**AUDIO DIVISION**
**APPLICATION STATUS:** (202) 418-2730
**HOME PAGE:** www.fcc.gov/mb/audio/

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JUL 12 2012

Allan G. Moskowitz, Esq.
10845 Tuckahoe Way
North Potomac, MD 20878

Re: Langar Broadcasting Group, LLC
WSRO(AM), Ashland, Massachusetts
Facility Identification Number: 52398
Construction Permit: BP-20101209AIZ
License Application: BL-20120628ABV
Program Test Authority

Dear Mr. Moskowitz:

This is in reference to the above-captioned license application to cover Construction Permit BP-20101209AIZ, and your request for program test authority for station WSRO(AM).

Authority is hereby granted WSRO(AM) to conduct program tests in accordance with Section 73.1620 of the Commission's rules and Construction Permit BP-20101209AIZ to operate on 650 kHz with a daytime nominal power of 1.5 kilowatts and a nighttime nominal power of 62 watts. Program tests are authorized with a daytime input power of 1.62 kilowatts (antenna common point current of 5.69 amperes) and a nighttime input power of 67 watts (antenna common point current of 1.16 amperes).

Program tests must be conducted with the directional antenna system adjusted in accordance with the enclosed specifications. Please notify this office if you have any problems with any of the specifications.

A preliminary review of the application reveals the following deficiencies:

1. Figure 7 is incorrectly labeled as the 183.5° ND radial. It must be labeled as the 215° ND radial.
2. The description of the sample lines is not provided. WSRO(AM) states that the previously licensed type approved system was formerly used by station WQOM(AM) before it moved and that the only change was to replace the tower mounted sampling loops with torroidal sampling transformers. However, we do not have this information in the WSRO(AM) file.
3. The family of curves used to analyze the measurements does not have the conductivity value of each curve.

Further action on the application will be withheld for thirty days (30) from the date of this letter in order to provide an opportunity to file a curative amendment. Failure to respond or file an amendment within this time period will result in the dismissal of the application pursuant to Section 73.3568 of the rules.

Sincerely,

Son Nguyen,
Supervisory Engineer
Audio Division
Media Bureau

cc: Charles A. Hecht
Langer Broadcasting Group, LLC

Name of Licensee: LANGER BROADCASTING GROUP, LLC

Station Location: ASHLAND, MA

Frequency (kHz): 650

Station Class: D

Antenna Coordinates:

| | | Day | | |
|---|---|---|---|---|
| Latitude: | N | 42 Deg | 17 Min | 17 Sec |
| Longitude: | W | 71 Deg | 25 Min | 55 Sec |

| | | Night | | |
|---|---|---|---|---|
| Latitude: | N | 42 Deg | 17 Min | 17 Sec |
| Longitude: | W | 71 Deg | 25 Min | 55 Sec |

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 1.5 Night: 0.062

Antenna Input Power (kW): Day: 1.6 Night: 0.067

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 5.69 Night: 1.16

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | Overall Height (m) |
|---|---|---|
| 1 | 1006700 | |
| 2 | 1006699 | |

Night:

| Tower No. | ASRN | Overall Height (m) |
|---|---|---|
| 1 | 1006700 | |
| 2 | 1006699 | |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 397.9 Night: 80.9

Standard RMS (mV/m/km): Day: 418.2 Night: 85.6

Augmented RMS (mV/m/km):

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|---|---|---|---|---|---|---|
| 1 | 1.0000 | 0.000 | 0.0000 | 0.000 | 0 | TL/S |
| 2 | 0.8150 | 143.500 | 42.8000 | 215.000 | 0 | TL/S |

* Tower Reference Switch
0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

| Tower No. | A | B | C | D |
|---|---|---|---|---|
| 1 | 104.7 | 11.20 | .00 | .00 |
| 2 | 104.7 | 11.20 | .00 | .00 |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|---|---|---|---|---|---|---|
| 1 | 1.0000 | 0.000 | 0.0000 | 0.000 | 0 | TL/S |
| 2 | 0.8150 | 143.500 | 42.8000 | 215.000 | 0 | TL/S |

* Tower Reference Switch
0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

| Tower No. | A | B | C | D |
|---|---|---|---|---|
| 1 | 104.7 | 11.20 | .00 | .00 |
| 2 | 104.7 | 11.20 | .00 | .00 |

Day Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|---|---|---|
| 1 | 0 | 1 |
| 2 | 142 | 0.67 |

Night Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|---|---|---|
| 1 | 0 | 1 |
| 2 | 142 | 0.67 |

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

| Radial (Deg. T) | Distance From Transmitter (kM) | Maximum Field Strength (mV/m) |
|---|---|---|
| 183.5 | 4.34 | 20.9 |
| 246.5 | 2.05 | 33.2 |

Night Operation:

| Radial (Deg. T) | Distance From Transmitter (kM) | Maximum Field Strength (mV/m) |
|---|---|---|
| 183.5 | 4.34 | 4.24 |
| 246.5 | 2.05 | 6.75 |

Special operating conditions or restrictions:

1 The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

2 Location of Monitor Points:

Direction of 183.5° true North. The point is located on the storm drain near 90/170A Algonquin Trail.

Direction of 246.5° true North. The point is located on the storm drain twenty feet opposite the driveway to 25 Travis Drive.

3 120 equally spaced burried copper radials each 91.4 meters in length except where intersecting radials are shortened and bonded with the radials of the ground system from an adjacent tower plus a 15.3 meter by 15.3 meter wire mesh at the base of each tower.

*** END OF AUTHORIZATION ***